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1 Expert system on a chip: an engine for real-time approximate reasoning 77%



M Togai , H Watanabe

Proceedings of the ACM SIGART international symposium on Methodologies for intelligent systems December 1986

The role of inferencing with uncertainty is becoming more important in rule-based expert systems (ES), since knowledge given by a human expert is often uncertain or imprecise. We have succeeded in designing a VLSI chip which can perform an entire inference process based on fuzzy logic. The design of the VLSI fuzzy inference engine emphasizes simplicity, extensibility, and efficiency (operational speed and layout area). It is fabricated in 2.5 μm CMOS technology. The inference engine con ...

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